

n/a
(no name in PALM)

1647 RUSH #10

CRF Errors Corrected by the STIC System Branch

Serial Number: 09/910,346C

CRF Processing Date: 8/28/2002
Edited by: [signature]
Verified by: [signature] (STIC staff)

ENTERED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☒ Other: Seq 6 - corrected <2137 response to "Unknown"

RECEIVED
AUG 30 2002
TECH CENTER 1600/2900

n/a



1600

RAW SEQUENCE LISTING

DATE: 08/28/2002

PATENT APPLICATION: US/09/910,346C

TIME: 09:54:17

Input Set : A:\D2885CIP revised seq id.txt

Output Set: N:\CRF3\08282002\I910346C.raw

3-4

3 <110> APPLICANT: STEWARD, LANCE E
 4 FERNANDEZ-SALAS, ESTER
 5 HERRINGTON, TODD M
 6 AOKI, KEI R
 8 <120> TITLE OF INVENTION: Leucine-based motif and clostridial neurotoxins
 10 <130> FILE REFERENCE: D-2885CIP
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/910,346C
 C--> 12 <141> CURRENT FILING DATE: 2000-07-21
 12 <150> PRIOR APPLICATION NUMBER: US 09/620,840
 13 <151> PRIOR FILING DATE: 2000-07-21
 15 <160> NUMBER OF SEQ ID NOS: 20
 17 <170> SOFTWARE: PatentIn version 3.1
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 20 <211> LENGTH: 7
 21 <212> TYPE: PRT
 C--> 22 <213> ORGANISM: Artificial
 24 <220> FEATURE:
 25 <221> NAME/KEY: MISC_FEATURE
 26 <222> LOCATION: (1)..(5)
 27 <223> OTHER INFORMATION: Description of Artificial Sequence: fragment having
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 28 bstantially similar to that of leucine based sequence
 29 x may be any amino acid or derivatives thereof
 32 <400> SEQUENCE: 1
 W--> 34 Xaa Asp Xaa Xaa Xaa Leu Leu
 35 1 5
 38 <210> SEQ ID NO: 2
 39 <211> LENGTH: 7
 40 <212> TYPE: PRT
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 43 <220> FEATURE:
 44 <221> NAME/KEY: MISC_FEATURE
 45 <222> LOCATION: (1)..(5)
 46 <223> OTHER INFORMATION: Description of Artificial Sequence: fragment having
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 47 bstantially similar to leucine based motif
 48 x may be any amino acid or derivatives thereof
 W--> 51 <400> SEQUENCE: 2
 W--> 53 Xaa Glu Xaa Xaa Xaa Leu Leu
 54 1 5
 57 <210> SEQ ID NO: 3
 58 <211> LENGTH: 7
 59 <212> TYPE: PRT
 C--> 60 <213> ORGANISM: Artificial

Does Not Comply
Corrected Diskette Needed

RAW SEQUENCE LISTING

DATE: 08/28/2002

PATENT APPLICATION: US/09/910,346C

TIME: 09:54:17

Input Set : A:\D2885CIP revised seq id.txt

Output Set: N:\CRF3\08282002\I910346C.raw

63 <221> NAME/KEY: MISC_FEATURE
64 <222> LOCATION: (1)..(5)
65 <223> OTHER INFORMATION: Description of Artificial Sequence: fragment having properties su
66 bstantially similar to that of leucine based motif
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70 <221> NAME/KEY: MISC_FEATURE
71 <222> LOCATION: (1)..(5)
72 <223> OTHER INFORMATION: X may be any amino acid or derivatives thereof
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78 1 5
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83 <212> TYPE: PRT
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87 <221> NAME/KEY: MISC_FEATURE
88 <222> LOCATION: (1)..(5)
89 <223> OTHER INFORMATION: Description of Artificial Sequence: fragment having properties su
90 bstantially similar to that of leucine based motif
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95 <222> LOCATION: (1)..(5)
96 <223> OTHER INFORMATION: X may be any amino acid or derivatives thereof
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112 <222> LOCATION: (1)..(5)
113 <223> OTHER INFORMATION: Description of Artificial Sequence: fragment having properties su
114 bstantially similar to leucine based motif
117 <220> FEATURE:
118 <221> NAME/KEY: MISC_FEATURE
119 <222> LOCATION: (1)..(5)
120 <223> OTHER INFORMATION: X may be any amino acid or derivatives thereof
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126 1 5
129 <210> SEQ ID NO: 6
130 <211> LENGTH: 7
131 <212> TYPE: PRT
C--> 132 <213> ORGANISM: Artificial
134 <220> FEATURE:
135 <221> NAME/KEY: MISC_FEATURE

Unknown
do you mean "Unknown"?
(see p. 4)

62 <220> FEATURE:

RAW SEQUENCE LISTING

DATE: 08/28/2002

PATENT APPLICATION: US/09/910,346C

TIME: 09:54:17

Input Set : A:\D2885CIP revised seq id.txt

Output Set: N:\CRF3\08282002\I910346C.raw

136 <222> LOCATION: (1)..(5)
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 143 <222> LOCATION: (1)..(5)
 144 <223> OTHER INFORMATION: X may be any amino acid or derivatives thereof
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 150 1 5
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 155 <212> TYPE: PRT
 156 <213> ORGANISM: Unknown
 158 <220> FEATURE:
 159 <223> OTHER INFORMATION: Description of Unknown Organism: This fragment may have come
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 160 a rat source.
 162 <400> SEQUENCE: 7
 164 Phe Glu Phe Tyr Lys Leu Leu
 165 1 5
 168 <210> SEQ ID NO: 8
 169 <211> LENGTH: 7
 170 <212> TYPE: PRT
 171 <213> ORGANISM: rat
 173 <400> SEQUENCE: 8
 175 Glu Glu Lys Arg Ala Ile Leu
 176 1 5
 179 <210> SEQ ID NO: 9
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 181 <212> TYPE: PRT
 182 <213> ORGANISM: rat
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 191 <211> LENGTH: 7
 192 <212> TYPE: PRT
 193 <213> ORGANISM: rat
 195 <400> SEQUENCE: 10
 197 Ser Glu Arg Asp Val Leu Leu
 198 1 5
 201 <210> SEQ ID NO: 11
 202 <211> LENGTH: 7
 203 <212> TYPE: PRT
 204 <213> ORGANISM: rat
 206 <400> SEQUENCE: 11
 208 Val Asp Thr Gln Val Leu Leu
 209 1 5
 212 <210> SEQ ID NO: 12

RAW SEQUENCE LISTING

DATE: 08/28/2002

PATENT APPLICATION: US/09/910,346C

TIME: 09:54:17

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223 <210> SEQ ID NO: 13
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225 <212> TYPE: PRT
226 <213> ORGANISM: frog
228 <400> SEQUENCE: 13
230 Ser Asp Lys Gln Asn Leu Leu
231 1 5
234 <210> SEQ ID NO: 14
235 <211> LENGTH: 7
236 <212> TYPE: PRT
237 <213> ORGANISM: chicken
239 <400> SEQUENCE: 14
241 Ser Asp Arg Gln Asn Leu Ile
242 1 5
245 <210> SEQ ID NO: 15
246 <211> LENGTH: 7
247 <212> TYPE: PRT
248 <213> ORGANISM: sheep
250 <400> SEQUENCE: 15
252 Ala Asp Thr Gln Val Leu Met
253 1 5
256 <210> SEQ ID NO: 16
257 <211> LENGTH: 7
258 <212> TYPE: PRT
259 <213> ORGANISM: Homo sapiens
261 <400> SEQUENCE: 16
263 Ser Asp Lys Gln Thr Leu Leu
264 1 5
267 <210> SEQ ID NO: 17
268 <211> LENGTH: 7
269 <212> TYPE: PRT
270 <213> ORGANISM: Homo sapiens
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275 1 5
278 <210> SEQ ID NO: 18
279 <211> LENGTH: 7
280 <212> TYPE: PRT
281 <213> ORGANISM: Homo sapiens
283 <400> SEQUENCE: 18
285 Ala Asp Thr Gln Ala Leu Leu
286 1 5
289 <210> SEQ ID NO: 19

RAW SEQUENCE LISTING

DATE: 08/28/2002

PATENT APPLICATION: US/09/910,346C

TIME: 09:54:17

Input Set : A:\D2885CIP revised seq id.txt

Output Set: N:\CRF3\08282002\I910346C.raw

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292 <213> ORGANISM: Clostridium botulinum
294 <400> SEQUENCE: 19
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297 1 5 10 15
300 Asp Ile Ala Tyr Ile Lys Ile Pro Asn Val Gly Gln Met Gln Pro Val
301 20 25 30
304 Lys Ala Phe Lys Ile His Asn Lys Ile Trp Val Ile Pro Glu Arg Asp
305 35 40 45
308 Thr Phe Thr Asn Pro Glu Glu Gly Asp Leu Asn Pro Pro Pro Glu Ala
309 50 55 60
312 Lys Gln Val Pro Val Ser Tyr Tyr Asp Ser Thr Tyr Leu Ser Thr Asp
313 65 70 75 80
316 Asn Glu Lys Asp Asn Tyr Leu Lys Gly Val Thr Lys Leu Phe Glu Arg
317 85 90 95
320 Ile Tyr Ser Thr Asp Leu Gly Arg Met Leu Leu Thr Ser Ile Val Arg
321 100 105 110
324 Gly Ile Pro Phe Trp Gly Gly Ser Thr Ile Asp Thr Glu Leu Lys Val
325 115 120 125
328 Ile Asp Thr Asn Cys Ile Asn Val Ile Gln Pro Asp Gly Ser Tyr Arg
329 130 135 140
332 Ser Glu Glu Leu Asn Leu Val Ile Ile Gly Pro Ser Ala Asp Ile Ile
333 145 150 155 160
336 Gln Phe Glu Cys Lys Ser Phe Gly His Glu Val Leu Asn Leu Thr Arg
337 165 170 175
340 Asn Gly Tyr Gly Ser Thr Gln Tyr Ile Arg Phe Ser Pro Asp Phe Thr
341 180 185 190
344 Phe Gly Phe Glu Glu Ser Leu Glu Val Asp Thr Asn Pro Leu Leu Gly
345 195 200 205
348 Ala Gly Lys Phe Ala Thr Asp Pro Ala Val Thr Leu Ala His Glu Leu
349 210 215 220
352 Ile His Ala Gly His Arg Leu Tyr Gly Ile Ala Ile Asn Pro Asn Arg
353 225 230 235 240
356 Val Phe Lys Val Asn Thr Asn Ala Tyr Tyr Glu Met Ser Gly Leu Glu
357 245 250 255
360 Val Ser Phe Glu Glu Leu Arg Thr Phe Gly Gly His Asp Ala Lys Phe
361 260 265 270
364 Ile Asp Ser Leu Gln Glu Asn Glu Phe Arg Leu Tyr Tyr Tyr Asn Lys
365 275 280 285
368 Phe Lys Asp Ile Ala Ser Thr Leu Asn Lys Ala Lys Ser Ile Val Gly
369 290 295 300
372 Thr Thr Ala Ser Leu Gln Tyr Met Lys Asn Val Phe Lys Glu Lys Tyr
373 305 310 315 320
376 Leu Leu Ser Glu Asp Thr Ser Gly Lys Phe Ser Val Asp Lys Leu Lys
377 325 330 335
380 Phe Asp Lys Leu Tyr Lys Met Leu Thr Glu Ile Tyr Thr Glu Asp Asn
381 340 345 350
384 Phe Val Lys Phe Phe Lys Val Leu Asn Arg Lys Thr Tyr Leu Asn Phe

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 08/28/2002
PATENT APPLICATION: US/09/910,346C TIME: 09:54:18

Input Set : A:\D2885CIP revised seq id.txt
Output Set: N:\CRF3\08282002\I910346C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,3,4,5
Seq#:2; Xaa Pos. 1,3,4,5
Seq#:3; Xaa Pos. 1,3,4,5
Seq#:4; Xaa Pos. 1,3,4,5
Seq#:5; Xaa Pos. 1,3,4,5
Seq#:6; Xaa Pos. 1,3,4,5

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6

VERIFICATION SUMMARY

DATE: 08/28/2002

PATENT APPLICATION: US/09/910,346C

TIME: 09:54:18

Input Set : A:\D2885CIP revised seq id.txt

Output Set: N:\CRF3\08282002\I910346C.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:22 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:1
L:34 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:41 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2
L:53 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:60 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3
L:77 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:84 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4
L:101 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:108 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5
L:125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:132 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6
L:149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0



1600

RAW SEQUENCE LISTING

DATE: 08/28/2002

PATENT APPLICATION: US/09/910,346C

TIME: 12:54:49

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\08282002\I910346C.raw

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3 <110> APPLICANT: STEWARD, LANCE E
4     FERNANDEZ-SALAS, ESTER
5     HERRINGTON, TODD M
6     AOKI, KEI R
8 <120> TITLE OF INVENTION: Leucine-based motif and clostridial neurotoxins
10 <130> FILE REFERENCE: D-2885CIP
C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/910,346C
C--> 12 <141> CURRENT FILING DATE: 2000-07-21
12 <150> PRIOR APPLICATION NUMBER: US 09/620,840
13 <151> PRIOR FILING DATE: 2000-07-21
15 <160> NUMBER OF SEQ ID NOS: 20
17 <170> SOFTWARE: PatentIn version 3.1
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 7
21 <212> TYPE: PRT
C--> 22 <213> ORGANISM: Artificial
24 <220> FEATURE:
25 <221> NAME/KEY: MISC_FEATURE
26 <222> LOCATION: (1)..(5)
27 <223> OTHER INFORMATION: Description of Artificial Sequence: fragment having
properties su
28     bstantially similar to that of leucine based sequence
29     x may be any amino acid or derivatives thereof
32 <400> SEQUENCE: 1
W--> 34 Xaa Asp Xaa Xaa Xaa Leu Leu
35 1      5
38 <210> SEQ ID NO: 2
39 <211> LENGTH: 7
40 <212> TYPE: PRT
C--> 41 <213> ORGANISM: Artificial
43 <220> FEATURE:
44 <221> NAME/KEY: MISC_FEATURE
45 <222> LOCATION: (1)..(5)
46 <223> OTHER INFORMATION: Description of Artificial Sequence: fragment having
properties su
47     bstantially similar to leucine based motif
48     x may be any amino acid or derivatives thereof
51 <400> SEQUENCE: 2
W--> 53 Xaa Glu Xaa Xaa Xaa Leu Leu
54 1      5
57 <210> SEQ ID NO: 3
58 <211> LENGTH: 7
59 <212> TYPE: PRT
C--> 60 <213> ORGANISM: Artificial

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62 <220> FEATURE:

RAW SEQUENCE LISTING

DATE: 08/28/2002

PATENT APPLICATION: US/09/910,346C

TIME: 12:54:49

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\08282002\I910346C.raw

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63 <221> NAME/KEY: MISC_FEATURE
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66      bstantially similar to that of leucine based motif
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70 <221> NAME/KEY: MISC_FEATURE
71 <222> LOCATION: (1)..(5)
72 <223> OTHER INFORMATION: X may be any amino acid or derivatives thereof
75 <400> SEQUENCE: 3
W--> 77 Xaa Asp Xaa Xaa Xaa Leu Ile
78 1      5
81 <210> SEQ ID NO: 4
82 <211> LENGTH: 7
83 <212> TYPE: PRT
C--> 84 <213> ORGANISM: Artificial
86 <220> FEATURE:
87 <221> NAME/KEY: MISC_FEATURE
88 <222> LOCATION: (1)..(5)
89 <223> OTHER INFORMATION: Description of Artificial Sequence: fragment having
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90      bstantially similar to that of leucine based motif
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94 <221> NAME/KEY: MISC_FEATURE
95 <222> LOCATION: (1)..(5)
96 <223> OTHER INFORMATION: X may be any amino acid or derivatives thereof
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102 1      5
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106 <211> LENGTH: 7
107 <212> TYPE: PRT
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110 <220> FEATURE:
111 <221> NAME/KEY: MISC_FEATURE
112 <222> LOCATION: (1)..(5)
113 <223> OTHER INFORMATION: Description of Artificial Sequence: fragment having
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114      bstantially similar to leucine based motif
117 <220> FEATURE:
118 <221> NAME/KEY: MISC_FEATURE
119 <222> LOCATION: (1)..(5)
120 <223> OTHER INFORMATION: X may be any amino acid or derivatives thereof
123 <400> SEQUENCE: 5
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126 1      5
129 <210> SEQ ID NO: 6
130 <211> LENGTH: 7
131 <212> TYPE: PRT
132 <213> ORGANISM: Unknown
134 <220> FEATURE:
135 <221> NAME/KEY: MISC_FEATURE

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RAW SEQUENCE LISTING

DATE: 08/28/2002

PATENT APPLICATION: US/09/910,346C

TIME: 12:54:49

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\08282002\I910346C.raw

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136 <222> LOCATION: (1)..(5)
137 <223> OTHER INFORMATION: Description of Unknown Organism: This fragment may have come
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138         a rat source.
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142 <221> NAME/KEY: MISC_FEATURE
143 <222> LOCATION: (1)..(5)
144 <223> OTHER INFORMATION: X may be any amino acid or derivatives thereof
147 <400> SEQUENCE: 6
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150 1           5
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155 <212> TYPE: PRT
156 <213> ORGANISM: Unknown
158 <220> FEATURE:
159 <223> OTHER INFORMATION: Description of Unknown Organism: This fragment may have come
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160         a rat source.
162 <400> SEQUENCE: 7
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165 1           5
168 <210> SEQ ID NO: 8
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170 <212> TYPE: PRT
171 <213> ORGANISM: rat
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176 1           5
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182 <213> ORGANISM: rat
184 <400> SEQUENCE: 9
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187 1           5
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192 <212> TYPE: PRT
193 <213> ORGANISM: rat
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198 1           5
201 <210> SEQ ID NO: 11
202 <211> LENGTH: 7
203 <212> TYPE: PRT
204 <213> ORGANISM: rat
206 <400> SEQUENCE: 11
208 Val Asp Thr Gln Val Leu Leu
209 1           5
212 <210> SEQ ID NO: 12

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RAW SEQUENCE LISTING

DATE: 08/28/2002

PATENT APPLICATION: US/09/910,346C

TIME: 12:54:49

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\08282002\I910346C.raw

213 <211> LENGTH: 7
214 <212> TYPE: PRT
215 <213> ORGANISM: mouse
217 <400> SEQUENCE: 12
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220 1 5
223 <210> SEQ ID NO: 13
224 <211> LENGTH: 7
225 <212> TYPE: PRT
226 <213> ORGANISM: frog
228 <400> SEQUENCE: 13
230 Ser Asp Lys Gln Asn Leu Leu
231 1 5
234 <210> SEQ ID NO: 14
235 <211> LENGTH: 7
236 <212> TYPE: PRT
237 <213> ORGANISM: chicken
239 <400> SEQUENCE: 14
241 Ser Asp Arg Gln Asn Leu Ile
242 1 5
245 <210> SEQ ID NO: 15
246 <211> LENGTH: 7
247 <212> TYPE: PRT
248 <213> ORGANISM: sheep
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252 Ala Asp Thr Gln Val Leu Met
253 1 5
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257 <211> LENGTH: 7
258 <212> TYPE: PRT
259 <213> ORGANISM: Homo sapiens
261 <400> SEQUENCE: 16
263 Ser Asp Lys Gln Thr Leu Leu
264 1 5
267 <210> SEQ ID NO: 17
268 <211> LENGTH: 7
269 <212> TYPE: PRT
270 <213> ORGANISM: Homo sapiens
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275 1 5
278 <210> SEQ ID NO: 18
279 <211> LENGTH: 7
280 <212> TYPE: PRT
281 <213> ORGANISM: Homo sapiens
283 <400> SEQUENCE: 18
285 Ala Asp Thr Gln Ala Leu Leu
286 1 5
289 <210> SEQ ID NO: 19

RAW SEQUENCE LISTING

DATE: 08/28/2002

PATENT APPLICATION: US/09/910,346C

TIME: 12:54:49

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\08282002\I910346C.raw

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291 <212> TYPE: PRT
292 <213> ORGANISM: Clostridium botulinum
294 <400> SEQUENCE: 19
296 Pro Phe Val Asn Lys Gln Phe Asn Tyr Lys Asp Pro Val Asn Gly Val
297 1 5 10 15
300 Asp Ile Ala Tyr Ile Lys Ile Pro Asn Val Gly Gln Met Gln Pro Val
301 20 25 30
304 Lys Ala Phe Lys Ile His Asn Lys Ile Trp Val Ile Pro Glu Arg Asp
305 35 40 45
308 Thr Phe Thr Asn Pro Glu Glu Gly Asp Leu Asn Pro Pro Pro Glu Ala
309 50 55 60
312 Lys Gln Val Pro Val Ser Tyr Tyr Asp Ser Thr Tyr Leu Ser Thr Asp
313 65 70 75 80
316 Asn Glu Lys Asp Asn Tyr Leu Lys Gly Val Thr Lys Leu Phe Glu Arg
317 85 90 95
320 Ile Tyr Ser Thr Asp Leu Gly Arg Met Leu Leu Thr Ser Ile Val Arg
321 100 105 110
324 Gly Ile Pro Phe Trp Gly Gly Ser Thr Ile Asp Thr Glu Leu Lys Val
325 115 120 125
328 Ile Asp Thr Asn Cys Ile Asn Val Ile Gln Pro Asp Gly Ser Tyr Arg
329 130 135 140
332 Ser Glu Glu Leu Asn Leu Val Ile Ile Gly Pro Ser Ala Asp Ile Ile
333 145 150 155 160
336 Gln Phe Glu Cys Lys Ser Phe Gly His Glu Val Leu Asn Leu Thr Arg
337 165 170 175
340 Asn Gly Tyr Gly Ser Thr Gln Tyr Ile Arg Phe Ser Pro Asp Phe Thr
341 180 185 190
344 Phe Gly Phe Glu Glu Ser Leu Glu Val Asp Thr Asn Pro Leu Leu Gly
345 195 200 205
348 Ala Gly Lys Phe Ala Thr Asp Pro Ala Val Thr Leu Ala His Glu Leu
349 210 215 220
352 Ile His Ala Gly His Arg Leu Tyr Gly Ile Ala Ile Asn Pro Asn Arg
353 225 230 235 240
356 Val Phe Lys Val Asn Thr Asn Ala Tyr Tyr Glu Met Ser Gly Leu Glu
357 245 250 255
360 Val Ser Phe Glu Glu Leu Arg Thr Phe Gly Gly His Asp Ala Lys Phe
361 260 265 270
364 Ile Asp Ser Leu Gln Glu Asn Glu Phe Arg Leu Tyr Tyr Tyr Asn Lys
365 275 280 285
368 Phe Lys Asp Ile Ala Ser Thr Leu Asn Lys Ala Lys Ser Ile Val Gly
369 290 295 300
372 Thr Thr Ala Ser Leu Gln Tyr Met Lys Asn Val Phe Lys Glu Lys Tyr
373 305 310 315 320
376 Leu Leu Ser Glu Asp Thr Ser Gly Lys Phe Ser Val Asp Lys Leu Lys
377 325 330 335
380 Phe Asp Lys Leu Tyr Lys Met Leu Thr Glu Ile Tyr Thr Glu Asp Asn
381 340 345 350
384 Phe Val Lys Phe Phe Lys Val Leu Asn Arg Lys Thr Tyr Leu Asn Phe

```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 08/28/2002
PATENT APPLICATION: US/09/910,346C TIME: 12:54:50

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\08282002\I910346C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,3,4,5
Seq#:2; Xaa Pos. 1,3,4,5
Seq#:3; Xaa Pos. 1,3,4,5
Seq#:4; Xaa Pos. 1,3,4,5
Seq#:5; Xaa Pos. 1,3,4,5
Seq#:6; Xaa Pos. 1,3,4,5

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5

VERIFICATION SUMMARY

DATE: 08/28/2002

PATENT APPLICATION: US/09/910,346C

TIME: 12:54:50

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\08282002\I910346C.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:22 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:1
L:34 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:41 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2
L:53 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:60 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3
L:77 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:84 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4
L:101 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:108 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5
L:125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0